Appl. No. : **10/078,282**
Filed : **February 19, 2002**

AMENDMENTS TO THE CLAIMS

Please cancel Claim 11, amend Claims 10 and 40-51, and add new Claims 52-56 as follows:

Claims 1-9 (Canceled)

10. (Currently amended) A structure for modulating light comprising:

modulators of light each including an interference cavity for causing interference modulation of the light, and

an optical compensation ~~mechanism~~ component coupled to the modulators which enhances the optical performance of the structure, the component comprising one or more of a photonic crystal array, a multilayer array of dielectric mirrors, and an array of microlenses.

Claims 11-39 (Canceled)

40. (Currently amended) A device for modulating light, comprising:

an array of interference modulators, each comprising a primary and a secondary mirror which in a quiescent state is spaced from the primary mirror by a first distance so that light reflected from the modulator is of a first color, and which in a second state, under influence of a bias voltage, is spaced from the primary mirror by a second distance which is less than the first distance so that the modulator reflects light of a second color; and

an optical compensation ~~mechanism~~ component coupled to the array to compensate for changes in a color of light reflected by the array due to changes in an angle at which the array is viewed.

41. (Currently amended) The device of claim 40, wherein the optical compensation ~~mechanism~~ component comprises a film with includes arbitrary periodic patterns of refractive indices.

42. (Currently amended) The device of claim 40, wherein the optical compensation ~~mechanism~~ component comprises an array of photonic crystals to reduce an angle of incidence that light passing through the optical compensation ~~mechanism~~ component makes with the array of interference modulators.

43. (Currently amended) The device of claim 40, wherein the optical compensation ~~mechanism~~ component comprises a film which includes a plurality of microscopic plates oriented to reduce an angle of incidence that light passing through the optical compensation ~~mechanism~~ component makes with the array of interference modulators.

44. (Currently amended) The device of claim [[42]] 43, wherein the film comprises a plurality of layers each comprising microscopic plates oriented to reduce an angle of incidence that light passing through the layer makes with the layer below it.

45. (Currently amended) The device of claim 40, wherein the optical compensation ~~mechanism~~ component comprises a plurality of microlenses to magnify an active area of the interference modulators in the array.

46. (Currently amended) A method for fabricating a reflective display, the method comprising:

fabricating an array of interference modulators, each comprising a primary and a secondary mirror which in a quiescent state is spaced on the primary mirror by a first distance so that light reflected [[form]] from the modulator is of a first color, and which in a second state, under influence of a biased voltage is spaced from the primary mirror by a second distance which is less than the first distance so that the modulator reflects light of a second color; and

coupling an optical compensation ~~mechanism~~ component to the array of interference modulators to compensate for changes in a color of light reflected by the array due to changes in an angle at which the array is viewed.

47. (Currently amended) The method of claim 46, wherein the optical compensation ~~mechanism~~ component comprises a film with includes arbitrary periodic patterns of refractive indices.

48. (Currently amended) The method of claim 46, wherein the optical compensation ~~mechanism~~ component comprises an array of photonic crystals to reduce an angle of incidence that light passing through the optical compensation ~~mechanism~~ component makes with the array of interference modulators.

49. (Currently amended) The method of claim 46, wherein the optical compensation ~~mechanism~~ component comprises a film which includes a plurality of microscopic plates oriented to reduce an angle of incidence that light passing through the optical compensation ~~mechanism~~ component makes with the array of interference modulators.

50. (Currently amended) The method of claim 49, wherein the film comprises a plurality of layers each comprising microscopic plates oriented to reduce an angle of incidence that light passing through the layer makes with the layer below it.

51. (Currently amended) The method of claim 46, wherein the optical compensation ~~mechanism~~ component comprises a plurality of microscopic lenses to magnify an active area of the interference modulators in the array.

52. (New) The structure of claim 10 in which the component comprises a photonic crystal array.

53. (New) The structure of claim 10 in which the component comprises a multilayer array of dielectric mirrors.

54. (New) The structure of claim 10 in which the component comprises an array of microlenses.

55. (New) The structure of claim 10 in which the component coupled to the modulators enhances the optical performance of the structure by minimizing color shift.

56. (New) The structure of claim 10 in which the component coupled to the modulators enhances the optical performance of the structure by supplying supplemental illumination.